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Hunter et al.

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(54) **BIOLOGICAL SAFETY CABINET WITH
 IMPROVED AIR FLOW**

(75) **Inventors:** **Jim Hunter**, Olathe; **Kevin Gilkison**,
 Overland Park, both of KS (US); **Larry**
Nelson, Kingsville, MO (US); **Burt**
Rhea, Overland Park, KS (US); **Jerry**
O'Dell, Independence, MO (US); **Greg**
Krueger, Trimble, MO (US); **Gary**
Roepke, Kansas City, MO (US);
Gerhard W. Knutson, Edina, MN
 (US); **Mary Ellen Kennedy**, Ashton
 (CA)

(73) **Assignee:** **Labconco Corporation**, Kansas City,
 MO (US)

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(58) **Field of Search** **454/56, 57, 58;**
312/209

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Primary Examiner—Harold Joyce

(74) *Attorney, Agent, or Firm*—Shook, Hardy & Bacon

(57) **ABSTRACT**

A biological safety cabinet is provided that includes a frame. The frame defines a protected work area and encloses the work area on all but one side. A sash is coupled to the frame that at least partially encloses the side that is not enclosed by the frame. A blower is coupled to the frame generally above the work area. The blower is adapted to circulate air through the work area to make the work area a negative pressure area so that harmful materials are confined. A sash grill is coupled to the frame generally below the sash that has a curved top surface. The curved sash grill provides a superior and less turbulent air-flow into the work area, thereby better containing any harmful materials. The curved sash grill is perforated, and the curvature and perforations of the sash grill compensate for partial blockage by such things as the user's arms and other objects. The curvature of the sash grill also avoids a sharp angle at the same height as the work surface which reduces the chance of contact and possible breakage of labware as it is moved into the cabinet.

26 Claims, 5 Drawing Sheets

